

To: Michele Mahoney[Mahoney.Michele@epa.gov]
Cc: 'Jeff Heimerman'[Heimerman.Jeff@epa.gov]
From: Gervais, Gregory
Sent: Wed 8/12/2015 7:14:20 PM
Subject: FW: Catchment modeling- Upper Animas

FYI TIFSD may be employing a novel CSM approach ('catchment modeling') to support the work out west. Tom Kady and I have been looking to pilot it, and while this may not be what we originally had in mind it may be very timely. If this proceeds, I'd like you to plug in as it would represent our testing the approach on a watershed scale for multiple mine adit sources and you'd be in a good place to collaborate on both the scoping, analysis and outreach if it is effective. I think Don Bussey is setting up a webinar with the ORD STLs next week to demonstrate the approach with Mr. He (I think he works for Lockheed-Martin now). Jeff can get you invited.

Thx

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Greg Gervais, P.E.

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From: Heimerman, Jeffrey
Sent: Wednesday, August 12, 2015 8:45 AM
To: Gervais, Gregory
Subject: FW: Catchment modeling- Upper Animas

From: Dyment, Stephen
Sent: Tuesday, August 11, 2015 4:08 PM
To: Powell, Dan; Bussey, Donald
Cc: Jefferson, Matthew; Heimerman, Jeffrey
Subject: Catchment modeling- Upper Animas

Dan,

I left you a voicemail earlier and just tried Matt but he is out of the country for another week. I called Jeff too just to chat because he is aware of the new catchment water modeling capabilities under SERAS. The RPM for the upper Animas approached me several days prior to the Gold King Mine incident we are currently dealing with in R8, R6, and R9 and wanted to discuss development of a CSM. We talked again yesterday and I also briefly spoke with Henry He who is working through Don Bussey and SERAS to provide the catchment water modeling service.

I think this might be a good opportunity to try out the catchment modeling approach. I need to get with Don Bussey to see what he thinks this might cost but according to my discussions with Henry He they can produce these models in just a few days. I'm hoping this can be a joint venture between TIFSD and ORD/R8 to try this on a site where the RPM desperately needs to begin developing a preliminary CSM and the watershed approach may prove valuable for looking at the hundreds of others mines, adits, tailings, and other mine infrastructure that exist up there. Armed with this as a starting point I'm hoping that we can better utilize all the data at the RPMs disposal and have an improved understanding of the surface and groundwater flow regimes in the basin such that we can optimize future sampling and remediation efforts.

Please contact me ASAP if you are interested.

Stephen Dyment

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